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					LA-6898-104.US	
Application No. 09/837793		Filing Date April 17, 2001		Examiner Not Yet Assign	ned	Art Unit N/A
Applicant(s): Mari	k Elliot					
nvention: PRECIS	SE NETWORK	TIME TRANS	FER		R	ECEIVED
	тс	THE COMMI	SSIONER FO	OR PATENTS	n	CT 0 4 2002
Transmitted herewith is an amendment in the above-identified application. The fee has been calculated and is transmitted as shown below.					Technology Center 260	
The fee has been	Calculated an		S AS AMENI	77 · · · · ·		7
	Claims Remaining After Amendment	Highest Number Previously Paid	Number Extra Claims Present	Rate		
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Independent Claims	1	- 6 =		х		0.00
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	ny overpaymer np y ad ditional fili		n processing f	ees required under 3	37 CFR 1.1	6 and 1.17.
				Dated: S	eptember	26, 2002
Attorney Reg. N	lo.: 26,200					
FULBRIGHT & 865 South Figur Twenty-Ninth Fl Los Angeles, Ca (213) 892-9315	eroa loor alifornia 90017					
		being deposited wit endment, Commis	sioner for Patents	Service with sufficient po , Washington, DC 20231		
Dated: September 26, 2	2002	Signature:	inda Ba	(Linda	Bakke)	

US Appl. No. 09/837,793

Docket No.: LA-6898-104.PC

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Nereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope activessed to: Commissioner for Patents, Washington, DC 20231, on the date shown below.

Date: September 24, 2002

Signature: Linda Bakke)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PRELIMINARY AMENDMENT

In re Patent Application of:

Mark Elliot

Application No.: 09/837,793

application ito:: 05/05/,/55

Filed: April 17, 2001

Group Art Unit: N/A

Examiner: Not Yet Assigned

For: PRECISE NETWORK TIME TRANSFER

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Commissioner for Patents Washington, DC 20231

Technology Center 2600

Dear Sir:

Preliminary to examination, please cancel originally filed claims 1-12 without prejudice and substitute the attached new claims 13-24.

These newly submitted claims correspond to claims deemed patentable over the prior art submitted on 28 February 2002, for the reasons stated by the EPO in its capacity of IPEA in the attached International Preliminary Examination Report (with 3 sheet Annex).. Also enclosed for the Examiner's convenience is a copy of the International Search Report.

This amendment is being made without prejudice for the sole purpose of expediting prosecution of this application. In particular, Applicant makes no admission as to the patentability of the cancelled claims, and should not be estoppel from later arguing that those claims are also directed to patentable subject matter.

It is noted for the record that neither X reference cited by the EPO has any obvious connection with maintaining precise synchronization between two clocks or with packet-based transmission protocols in which time of transmission and time of reception data is

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protected by an associated CRC field (or other error checking code). It is also noted for the record that inserting the actual time of reception or transmission at the physical interface into the data packet of the "NTP" time protocol by (as apparently advocated by Ulrich Schmidt et al at Vienna Technical University), would require an "on the fly" recalculation of the mandatory CRC field and relatively complex special purpose hardware.

In contrast, Applicant utilizes an external "auxiliary" receive timestamp structure which merely captures the actual time of receipt at the physical interface of the network boundary, but makes no changes to the received data. Rather than recalculating any associated error code, applicant is thus able to use the existing code and process or forward the received data packets in a completely transparent manner without any attendant complexity or delay in the physical layer. Similarly, the outgoing packet can be released at precisely the scheduled time, with any required CRC or other protocol required information calculated in advance based on a future scheduled time, rather than calculated on the fly based on the current actual time. If the packet is not released as scheduled, it can be rescheduled and the affected fields recomputed and rewritten at the application layer, with no impact on the physical layer or on the transmission protocol.

Dated: September 2002

Respectfull submitted,

John M. Max

Registration No.: 26,200

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